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30 July 1965

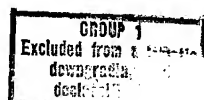
MEMORANDUM FOR THE RECORD

SUBJECT: Trip Report, Aerojet General, 27 July 1965

1. A trip was made to AGC for the purpose of reviewing the design and development effort on the IR Launch Detector [redacted] and to investigate the reasons behind a reported 25X1 four week schedule step.

2. Design and development is proceeding exceptionally close to schedule in most design areas. The area, which is behind schedule, is concerned with optical design of the system. The increased field of view requirement necessitated the use of a four element system instead of the conventional three element system. The final computer run was completed on 15 July. It is expected that detection sizing may be completed on about 2 August. Breadboarding and evaluation of the preamps is now in progress. Design of the lenses has been completed about two weeks ahead of schedule. This was actually a by-product of the optical system design completed on 15 July. It appears, at this time, there is sufficient leeway in the detector procurement activity to allow for end item delivery according to the original schedule.

3. A design concept has evolved which entails the use of a test source of IR radiation within the optical system instead of being located externally. This concept will eliminate source alignment problems which could be anticipated if an externally mounted test source was used. (The test source is used for In Flight Testing of the system.)



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4. AGC has been coordinating with LAC on window material. LAC has approved fused quartz on a material strength basis. LAC is now in the process of firming up the mechanical mounting of the quartz windows.

5. Possible integration of [redacted] was discussed with AGC. The integration of the systems would decrease the false alarm rate [redacted] rather significantly. Integration of the hardware appears to be very simple. This method of reducing false alarms will be incorporated if testing and/or operations shows that it is necessary.

25X1

SIGNED

[redacted]
ASD/OEL

25X1

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